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We describe a generalization of the theory of normal curves on surfaces that applies for arcs with endpoints at the vertices of a triangulation. We discuss how this was used in the context of the Kauffman bracket skein algebra of a punctured surface, which was defined by Roger-Yang and has two new skein relations (besides the two usual Kauffman bracket skein relations). In particular, when the punctured surface admits an ideal triangulation without self-folded edges or triangles, we show that its skein algebra has no zero divisors. (Received August 21, 2019)