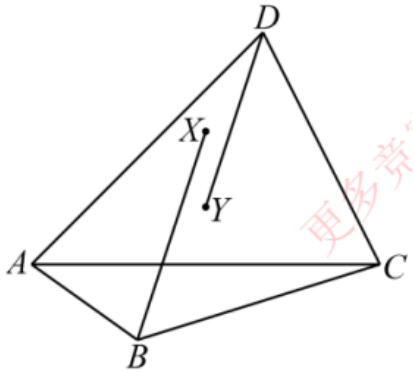
Example 1 93 : As shown in Figure 1 , *in* the convex quadrilateral *ABCD*, ∠BAD = ∠DCB , *X* and *Y are the circumcenters of* △ *ABC* and △ *ACD respectively* . Prove: *BX* / / *DY* .



$$\frac{D-Y}{B-X}=\left(\frac{D-Y}{D-A}\frac{C-A}{C-D}\right)\left(\frac{B-A}{B-X}\frac{C-B}{C-A}\right)\frac{\dfrac{A-D}{A-B}}{\dfrac{C-B}{C-D}},$$